STAT
Approved For Release 2005/06/23 : CIA-RDP78B05171A000400030007-3

ASSIFICATION

DOCUMENT NO.

SHEET 1 OF 10

USED ON
MLT-1540

DATE
11 September 1970

REVISION
(See last sheet for record)

TITLE

(PRELIMINARY)

ACCEPTANCE TEST PROCEDURE FOR LIGHT TABLE MLT-1540

— CORRECTIONS —

Rec'd 15 Sep 70

SERIAL NUMBER _____

TEST BY -- _____

DATE _____

TIME _____

Declass review by NGA/DoD

PREPARED BY	DATE	APPROVED BY	DATE

STAT
Approved For Release 2005/06/23 : CIA-RDP78B05171A000400030007-3

STAT

Approved For Release 2005/06/23 : CIA-RDP78B05171A000400030007-3

TABLE OF CONTENTS

1.0 PURPOSE

2.0 EQUIPMENT REQUIRED
2.1 MLT-1570
2.2 Test Film
2.3 Empty Take-Up Spools
2.4 Stop Watch
2.5 Foot Lambert Meter

3.0 ACCEPTANCE TEST
3.1 Mechanical and Visual
3.2 Power Check
3.3 Illumination
3.4 Adjustable Stand
3.5 Film Handling System
3.6 Transport Speed and Operation
3.7 Microscope Carriage and Mount

STAT

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1.0 PURPOSE

The purpose of the Acceptance Test Procedure is to verify that the Modular Light Table, MLT-1540, meets its functional and performance requirements.

2.0 EQUIPMENT REQUIRED

2.1 MLT-1540 complete per [redacted] Drawing No. STAT

2.2 Test film as follows:

9.5 inch wide, 4 mil base, 1000 foot roll, 500 foot roll

6.6 inch film

5 inch film

70mm film

2.3 Empty take-up spools

(This should be commensurate with the number of films required as listed above.)

2.4 Stop Watch

2.5 GFE foot lambert meter (Weston Model 759)

3.0 ACCEPTANCE TEST

Completion and verification of each of the following items shall be noted by inspector's stamp in the space provided.

3.1 Mechanical and visual inspection

STAT The MLT shall be carefull examined to determine conformance to the requirements of [redacted] Drawing ; Outline Drawing. Moving parts such as covers, latches and gear mechanisms shall be checked to assure proper fit and operation without sticking or binding. Quality of workmanship, proper materials and finishes, nameplate installation, etc. shall be verified.

Stamp _____

STAT

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STAT
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Name _____

Mechanical Check

Workmanship Stamp _____

Decals Stamp _____

Circuit Diagrams Stamp _____

3.2 Power Check

Power Indicator Lights Stamp _____

Elapsed Time Meter Operates Stamp _____

Fans Operate Stamp _____

Noise Within Acceptable Audible Level Stamp _____

Vibrations Within Acceptable Level Stamp _____

3.3 Illumination

Warm up - all on maximum intensity for 30 minutes prior to proceeding with the next step. Stamp _____

Maximum intensity - 3000 ft. lamberts within 2 inch radius of center Stamp _____

Minimum intensity - ~~25 ft.~~ 200 lamberts within 2 inch radius of center Stamp _____

Balance - two within 100 ft. lamberts at maximum intensity Stamp _____

Interaction - one at minimum or maximum does not change more than 100 ft. lamberts through full range of other Stamp _____

STAT
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STAT
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CLASSIFICATION

DOCUMENT NO.

SHEET NO. 5

Uniformity - record on the following sheets the foot lambert readings at points 1 through 17 with illumination levels of 1000, 2000 and 3000 ft. lamberts. Record similar readings for left light source.

Illumination does not exceed 15% 35 (max. @ 3000 ft-l) difference between any two measurements taken within frame area indicated and no greater than 30% 55 over the entire surface.

Right Light Source Stamp _____

Left Light Source Stamp _____

Flicker - none visible Stamp _____

STAT
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STAT

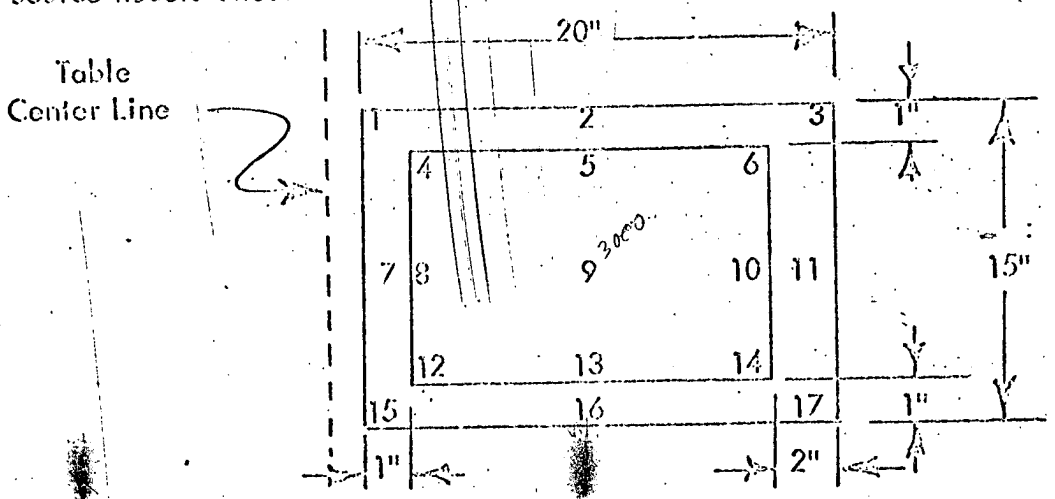
Approved For Release 2005/06/23 : CIA-RDP78B05171A000400030007-3

CLASSIFICATION

DOCUMENT NO.

SHEET NO. 6

Right Light Source Record Sheet



	1000 Ft. Lamberts	2000 Ft. Lamberts	3000 Ft. Lamberts
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			

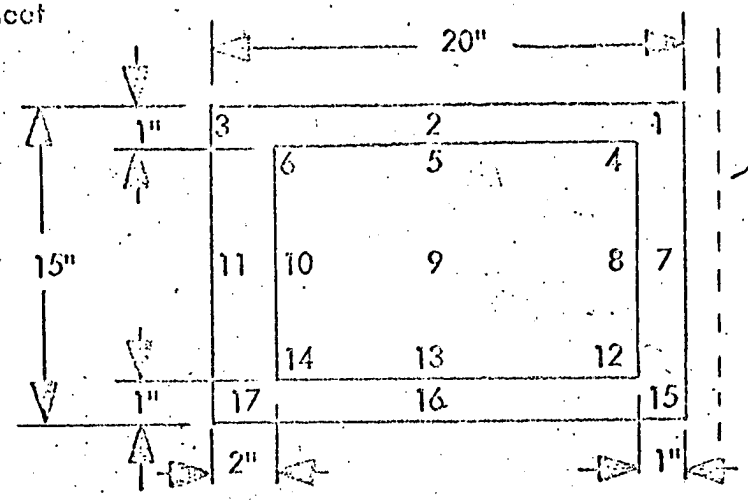
STAT

Approved For Release 2005/06/23 : CIA-RDP78B05171A000400030007-3

STAT
Approved For Release 2005/06/23 : CIA-RDP78B05171A000400030007-3

DOCUMENT NO.
SHEET NO. 7

Left Light Source Record Sheet



1	1000 Ft. Lamberts	2000 Ft. Lamberts	3000 Ft. Lamberts
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			

STAT
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STAT

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3.4 Adjustable Stand

Verify that table elevation operates through full available travel and will lock at any height. Stamp _____

Emergency hand crank operation - smooth, easy, and will lock at any range. Stamp _____

Tilt free travel through entire range. Stamp _____

3.5 Film Handling System - each film station

Check operation of drive housing and center support positioning and detenting Stamp _____

Check operation of spindle retraction Stamp _____

Check rollers for freedom, nicks, scratches, etc. Stamp _____

3.6 Transport Speed and Operation

9.5 inch film (4 mil base) Normal Mode

Minimum speed <1 inch/sec. Stamp _____

Maximum speed
1000 ft. < 3 min. Stamp _____

500 ft. < 1 min. Stamp _____

Check operation on 9.5" film in split mode. Stamp _____

Parallel mode - two 5" films loaded parallel will drive individually or simultaneously in same or opposite directions. Stamp _____

Check transport operation with three 5" films on table. Stamp _____

Check for excess tension and/or loop throwing when full reversal occurs. Stamp _____
(2 #/in max)

STAT

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STAT

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Looping mechanism -- load film in normal mode

Check mechanical operations by looping film. Stamp _____

Operate transport Stamp _____

3.7 Microscope Carriage and Mount

Full travel - in any Y direction. Stamp _____

No binding or rough spots Stamp _____

Check locks -- hold agains 10 lbs. of force. Stamp _____

Check motor drives in X and Y directions Stamp _____

Speed - 0 to 0.5" per sec. Stamp _____

Vibration with acceptable level Stamp _____

Microscope mount operation adjust - free and lock condition Stamp _____

Parallelism within .015 of carriage to viewing surface as measured according to chard and recorded on the following sheet.

Left Source Stamp _____

Right Source Stamp _____

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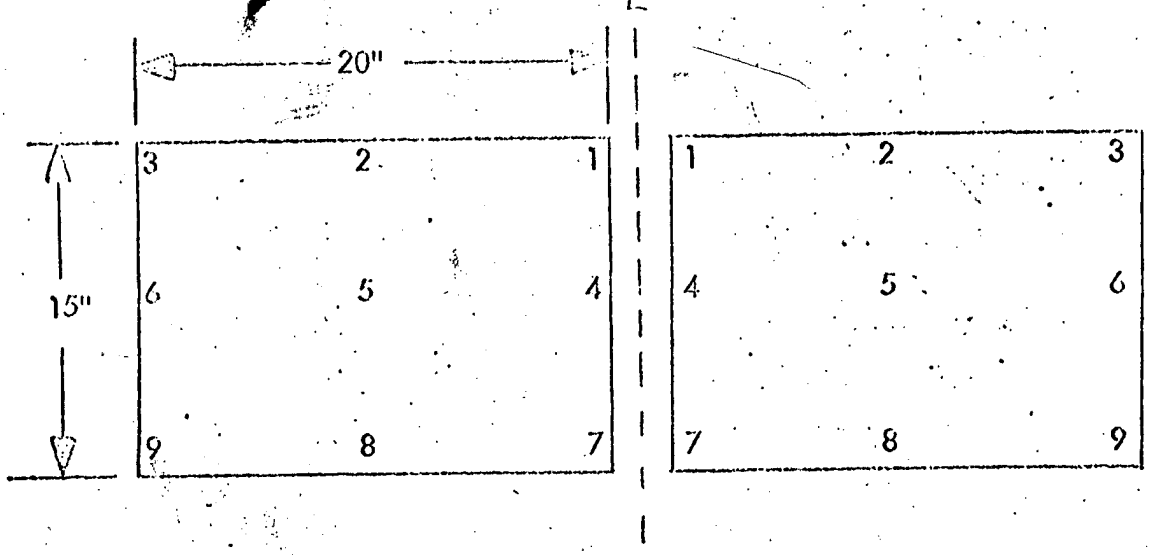
Parallelism Record Sheet

Table ℄



	Left Source	Right Source
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		

✓ New power switch with white frosted indicator light

✓ Check detents for film brackets

✓ Check that film drive control knob has high and low speed ranges
(low = 0-1 in/sec)
(high = 0-500 ft/min)

✓ Check film take-up (0-76 in)

✓ Check noise

✓ Check grounding and safety

✓ Check power [illegible] table and

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